Information
Disclosure
Statement
(IDS)

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Application No.:	
Appl'n Filing Date:	March 29, 2004 (herewith)
Examiner:	
Art Unit:	
Attorney Docket:	TI-36611
First Inventor:	Heng-Chih LIN et al.
	CURRENT INTERPOLATION
Title of Invention:	IN MULTI-PHASE LOCAL OSCILLATOR
	FOR USE WITH HARMONIC REJECTION MIXER

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicants draw the examiner's attention to the documents listed on the accompanying Form PTO-1449:

- The Weldon et al. reference is discussed in the Background section of the captioned patent application; part of the reference is illustrated in Applicants' "Prior Art" FIG. 1.
- The Magoon et al. reference uses a higher VCO frequency with a frequency divider and signal summation, to construct a pseudo-sinusoidal LO wave (Fig. 8) having reduced harmonic content; similar to the Weldon et al. reference, Magoon's approach has a high VCO frequency and a limited number of LO phases.

Applicants request that the examiner initial the space adjacent the documents on the accompanying Form PTO-1449 to indicate official consideration of the documents, and mail the initialed Form PTO-1449 to the correspondence address of record.

Respectfully submitted,

Date: March 29, 2004

For Customer No. 23,494

Voice: 301.464.0431

Raymond C. Glenny Registration No. 32,413

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Form PTO-1449  Information Disclosure Citation				Attorney Docket	Application No.  Examiner  Group Art Unit					
				TI-36611						
				Applicant						
				Heng-Chih LIN et al.						
				Application Filing Date						
				March 29, 2004						
U.S. Patent Documents										
Examiner	Cite	Patent or Application								
Initials	Cite	Number			Name	Class	Class	Date		
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Initials	Cite	Document Number	Date	Country	Name	Class	Class	lation		
	L							Yes No		
	M							Yes No		
	N							Yes No		
	0							Yes No		
	P							Yes No		
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)										
					Narayanaswami, R. S.; Otsuk		edieu, S:	Tee, L.;		
	Q	Tsai, K-C; Lee, C-W; and Gray, P. R.; "A 1.75 GHz Highly-Integrated Narrow-Band CMOS								
		Transmitter with Harmonic-Rejection Mixers," Section 10.4 of Digest of Technical Papers of								
		the 2001 IEEE International Solid-State Circuits (ISSC) Conference, 5-7 Feb. 20								
	-	pages 160-162.								
		Magoon, R., Molnar, A., Zachan, J., Hatcher, G., and Rhee, W., "A single-chip quad-band (850/900/1800/1900MHz) Direct Conversion GSM/GPRS RF Transceiver with Integrated								
	R	VCOs and Fractional-N Synthesizer," <i>IEEE Journal of Solid-State Circuits</i> , vol. 37, No. 12,								
	December 2002, pp. 1710-1720.									
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Examiner Signature					Date Considered					
EVALUE:	D. 1				and manage with MARCH 5 000 Part II	ing there is the	itation if	i		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.										